E.O. 32809

DASH NO.	MANUFACTURER'S PART NUMBER ①	②	③	REVISIONS
-0001	01-24340F			
① ② ③	MOTOROLA, INC., PHOENIX, ARIZONA (94990)			
	COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION			

APPROVAL [signature] DATE 2-22-5

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION

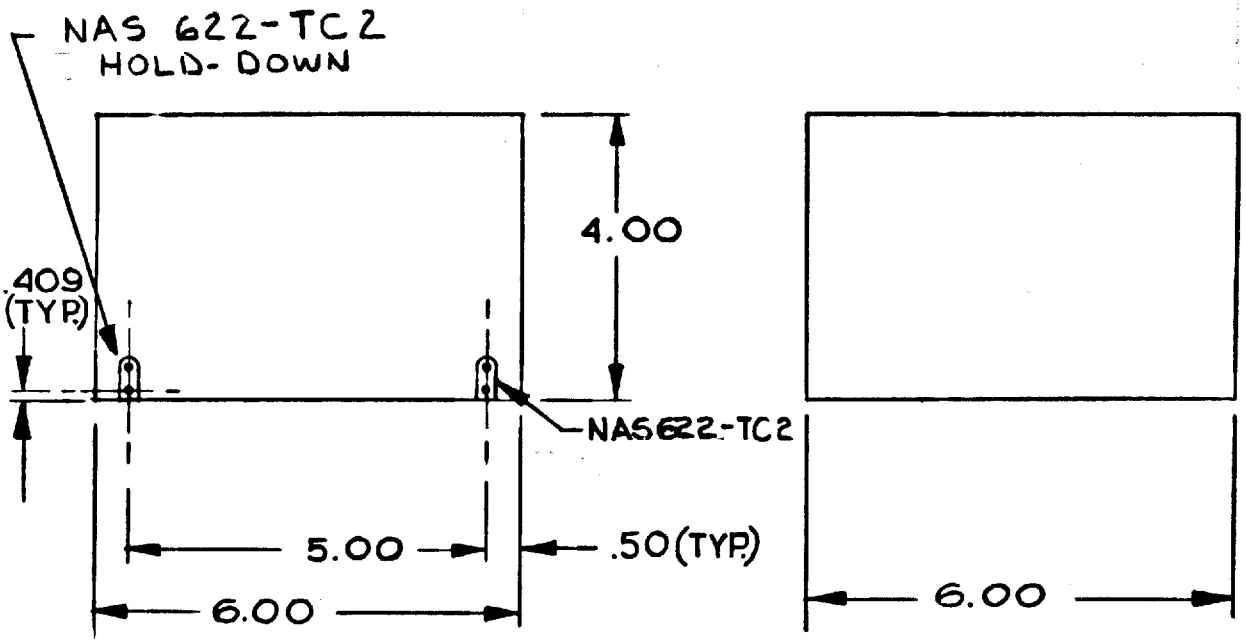
REV. DATE _____

APPROVED SOURCE LIST

ME 901-0666

SHEET 1 OF 1

FORM 923-M REV 4-62



DIMENSIONS SHOWN ARE MAXIMUM ENVELOPE

⟨1⟩	I&T	SCD DASH NUMBER
	T_S	ME 901-0666-0001

⟨1⟩ IDENTIFICATION AND TRACEBILITY

(T_s) TRACEABILITY BY SERIAL NUMBER

E.O. 310116

REVISED

NAA PROCUREMENT SPEC: MC 901-0666

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001
.041 THRU .130 : +.002 -.001
.131 THRU .229 : +.003 -.001
.230 THRU .500 : +.004 -.001
.501 THRU .750 : +.006 -.001
.751 THRU 1.000 : +.007 -.001
1.001 THRU 2.000 : +.010 -.001

CODE IDENT NO 03953

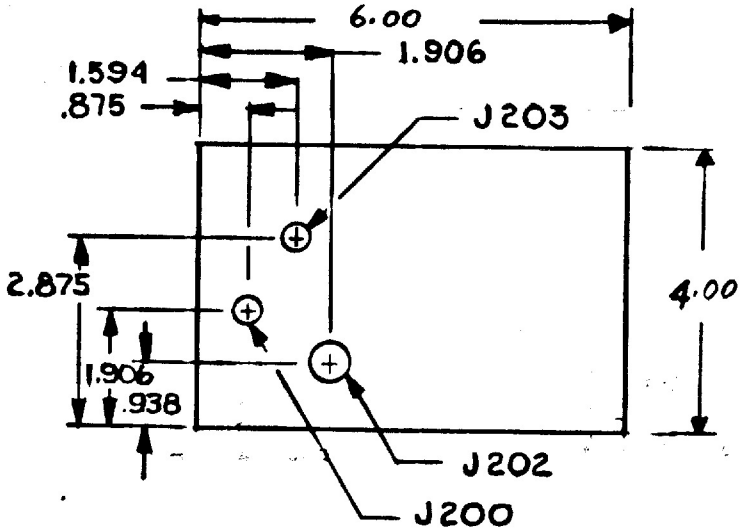
DR BY	C.S.CLARK	10-15-6
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

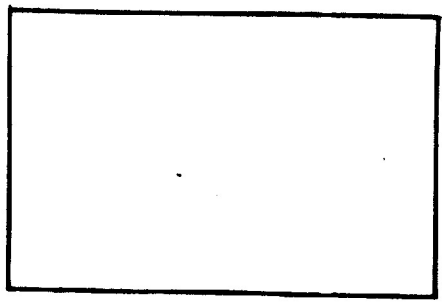
COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION
SPEC CONTROL DRAWING

CONTROL PART
ME 901-0666
SHEET 1 OF 3

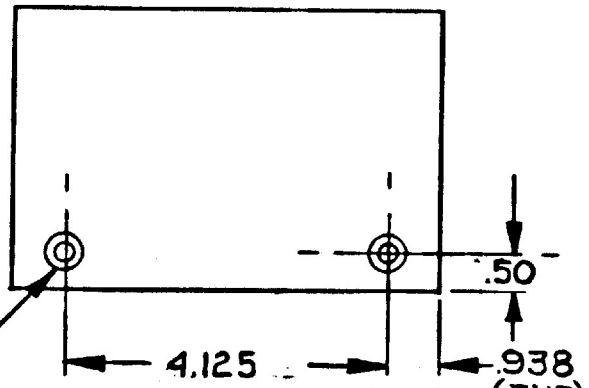
FORM 223-M-1 NEW 6-63



FRONT VIEW



SIDE VIEW



.376±.001 DIA.
HOLE .875 DEEP
COUNTERBORE
.568 +.008 -.001
.062 DEEP

BACK VIEW

NOTE: LOCATE KEYWAYS AT 9:00 O'CLOCK FOR ALL DEUTSCH TYPE DSM CONNECTORS.

REVISED

TOLERANCES, EXCEPT AS NOTED ANGLES ±30' DECIMALS .XX = ±.03 .XXX = ±.010	TOLERANCES ON HOLES NOTED "DRILL"	.003 THRU .040 : +.001 -.001 .041 THRU .130 : +.002 -.001 .131 THRU .229 : +.003 -.001 .230 THRU .500 : +.004 -.001 .501 THRU .750 : +.005 -.001 .751 THRU 1.000 : +.007 -.001 1.001 THRU 2.000 : +.010 -.001	CODE IDENT NO 03953	
DR BY CSCLARK 10-15-64	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA		CONTROL PART	
CHK BY				
APPROVED BY	COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION SPEC CONTROL DRAWING		ME 901-0666	
			SHEET 2	

FORM 525-M-1 NEW 6-63

CONNECTOR PIN AND FUNCTION LIST

PIN NO.	FUNCTION
J200: (DS00-194P, DEUTSCH CO. OR EQUAL)	
	POWER
1	PLUS
2	MINUS
3	N/C
4	N/C
J202: (DS04-7S, DEUTSCH CO. OR EQUAL)	
	DATA OUTPUT
1	N/C
2	LOGIC "1" - DATA OUTPUT
3	LOGIC "0" SHIELD
4	LOGIC "0" DATA RETURN
5	LOGIC "0" DATA OUTPUT
6	LOGIC "1" SHIELD
7	LOGIC "1" DATA RETURN
J203: (DSM04-19-335 DEUTSCH CO. OR EQUAL)	
	LOGIC INPUT
1	N/C
2	N/C
3	2^{1}
4	2^{1}
5	2^{2}
6	2^{2}
7	2^{3}
8	2^{3}
9	2^{4}
10	2^{4}
11	2^{5}
12	2^{5}
13	2^{6}
14	2^{6}
15	2^{7}

PIN NO.	FUNCTION
J203 (CONT.)	
16	2^{7}
17	2^{8}
18	2^{8}
19	2^{9}
20	2^{9}
21	2^{10}
22	2^{10}
23	2^{11}
24	2^{11}
25	2^{12}
26	2^{12}
27	2^{13}
28	2^{13}
29	2^{14}
30	2^{14}
31	2^{15}
32	2^{15}
33	2^{16}
34	2^{16}
35	2^{17}
36	2^{17}
37	2^{18}
38	2^{18}
39	G&N SELECT
40	GROUP DECODE CHECK
41	BUFFER NOT BUSY
42	MODE CHECK
43	BUFFER CHECK
44 THRU 57	N/C
58	LOGIC GROUND
59	-
60	-
61	-

REVISED

FORM 825-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.063 THRU .040 : +.001 -.001
.041 THRU .130 : +.002 -.001
.131 THRU .229 : +.003 -.001
.230 THRU .500 : +.004 -.001
.501 THRU .750 : +.005 -.001
.751 THRU 1.000 : +.007 -.001
1.001 THRU 2.000 : +.010 -.001

CODE IDENT NO 03953

DR BY	C. BAUER	10-15-64
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

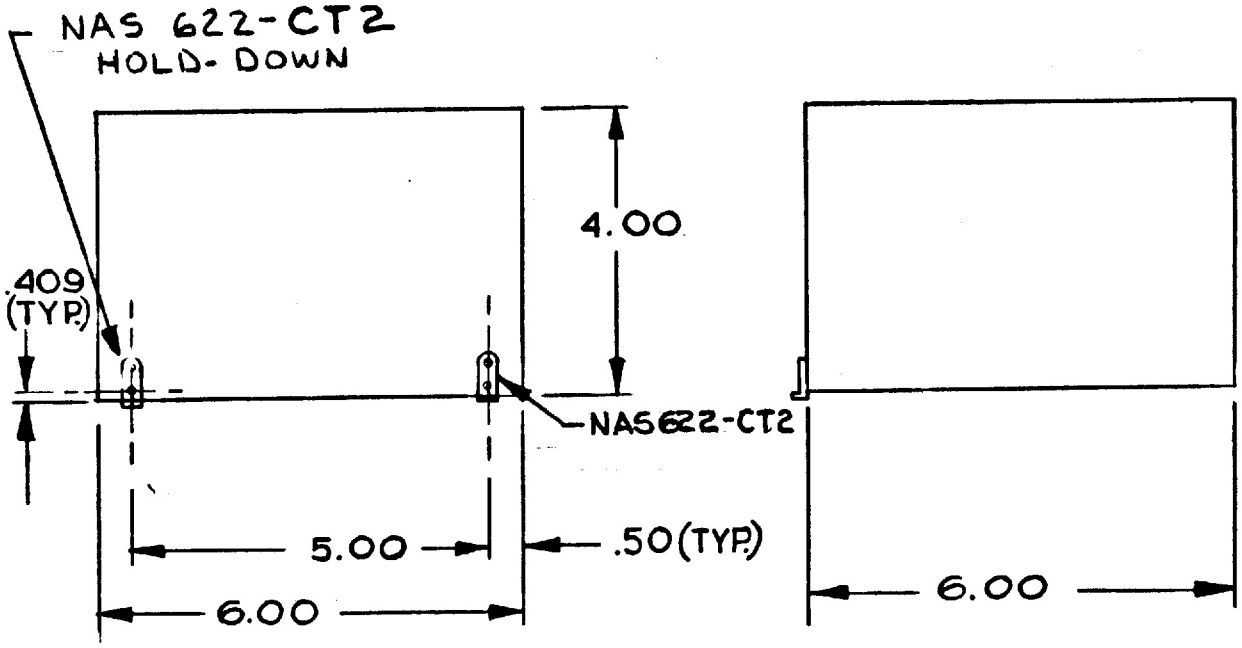
COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION

SPEC CONTROL DRAWING

CONTROL PART

ME901-0666

SHEET 3



DIMENSIONS SHOWN ARE FOR REFERENCE ONLY

⟨1⟩	I&T	SCD DASH NUMBER
	Ts	ME 901-0666-0001

⟨1⟩ IDENTIFICATION AND TRACEBILITY

(T_s) TRACEABILITY BY SERIAL NUMBER

E.O. 328083

REVISED Ⓐ 2-3-65 GD

NOTE TO NAA PURCHASING:
SEE ASL FOR PROCUREMENT DATA

NAA PROCUREMENT SPECIFICATION - MC 901-0666A

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001
.041 THRU .130 : +.002 -.001
.131 THRU .229 : +.003 -.001
.230 THRU .500 : +.004 -.001
.501 THRU .750 : +.005 -.001
.751 THRU 1.000 : +.007 -.001
1.001 THRU 2.000 : +.010 -.001

CODE IDENT NO 03953

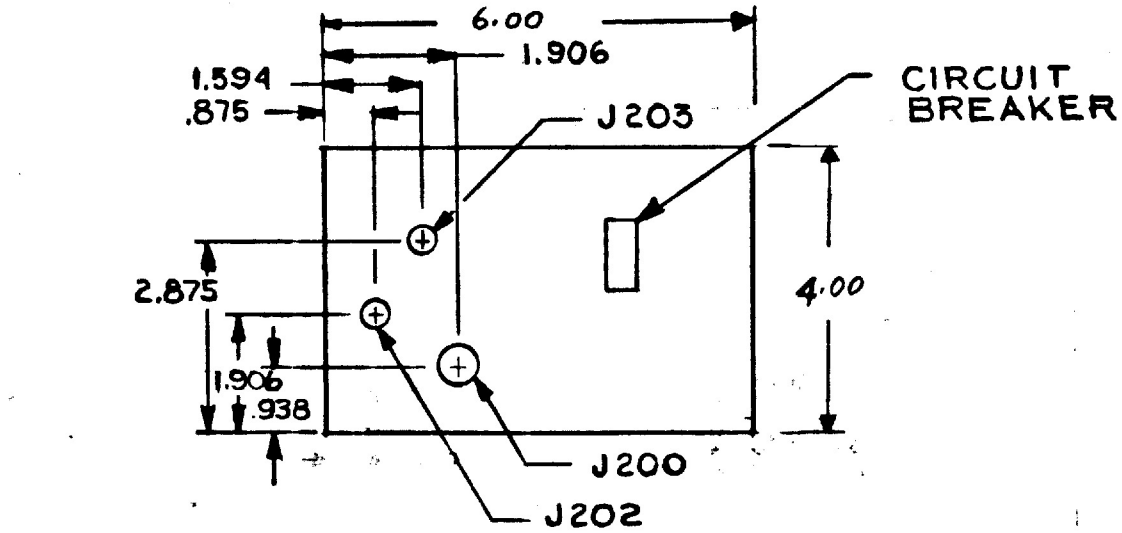
DR BY	C.S.CLARK	10-15-64
CHK BY		
APPROVED BY		
W.G. Wright		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

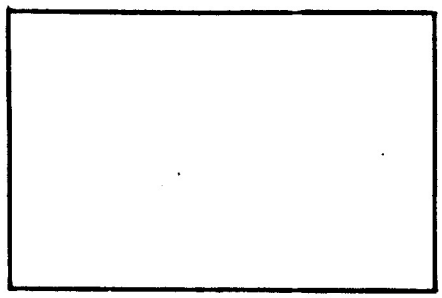
COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION
SPEC CONTROL DRAWING

CONTROL PART
ME 901-0666
SHEET 1 OF 3

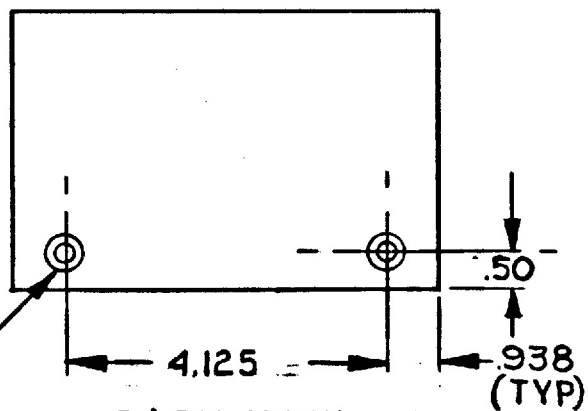
FORM 925-M-1 NEW 6-63



FRONT VIEW



SIDE VIEW



TEFLON INSERT .305±.005 I.D. BACK VIEW
2 HOLES .875 DEEP

NOTE: LOCATE KEYWAYS AT 9:00 O'CLOCK FOR ALL DEUTSCH TYPE DSM CONNECTORS.

REVISED (A) 2-3-65 OD

FORM 925-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED ANGLES ±30' DECIMALS .XX = ±.03 .XXX = ±.010	TOLERANCES ON HOLES NOTED "DRILL" .013 THRU .040 : +.001 -.001 .501 THRU .750 : +.005 -.001 .041 THRU .130 : +.002 -.001 .751 THRU 1.000 : +.007 -.001 .131 THRU .229 : +.003 -.001 1.001 THRU 2.000 : +.010 -.001 .230 THRU .500 : +.004 -.001			CODE IDENT NO 03953
DR BY CSCLARK 10-15-6	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA			CONTROL PART
CHK BY				
APPROVED BY	COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION			ME 901-0666
	SPEC CONTROL DRAWING			SHEET 2

CONNECTOR PIN AND FUNCTION LIST

PIN NO.	FUNCTION
J200: (DS00-194P, DEUTSCH CO. OR EQUAL)	
POWER	
1	PLUS
2	MINUS
3	N/C
4	N/C
J202: (DS04-7S, DEUTSCH CO. OR EQUAL)	
DATA OUTPUT	
1	N/C
2	LOGIC "1" - DATA OUTPUT
3	LOGIC "0" SHIELD
4	LOGIC "0" DATA RETURN
5	LOGIC "0" DATA OUTPUT
6	LOGIC "1" SHIELD
7	LOGIC "1" DATA RETURN

REVISED (N) 2-3-65

FORM 925-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001 .501 THRU .750 : +.005 -.001
.041 THRU .130 : +.002 -.001 .751 THRU 1.000 : +.007 -.001
.131 THRU .229 : +.003 -.001 1.001 THRU 2.000 : +.010 -.001
.230 THRU .500 : +.004 -.001

CODE IDENT NO 03953

DR BY	C. BAUER	10-15-64
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

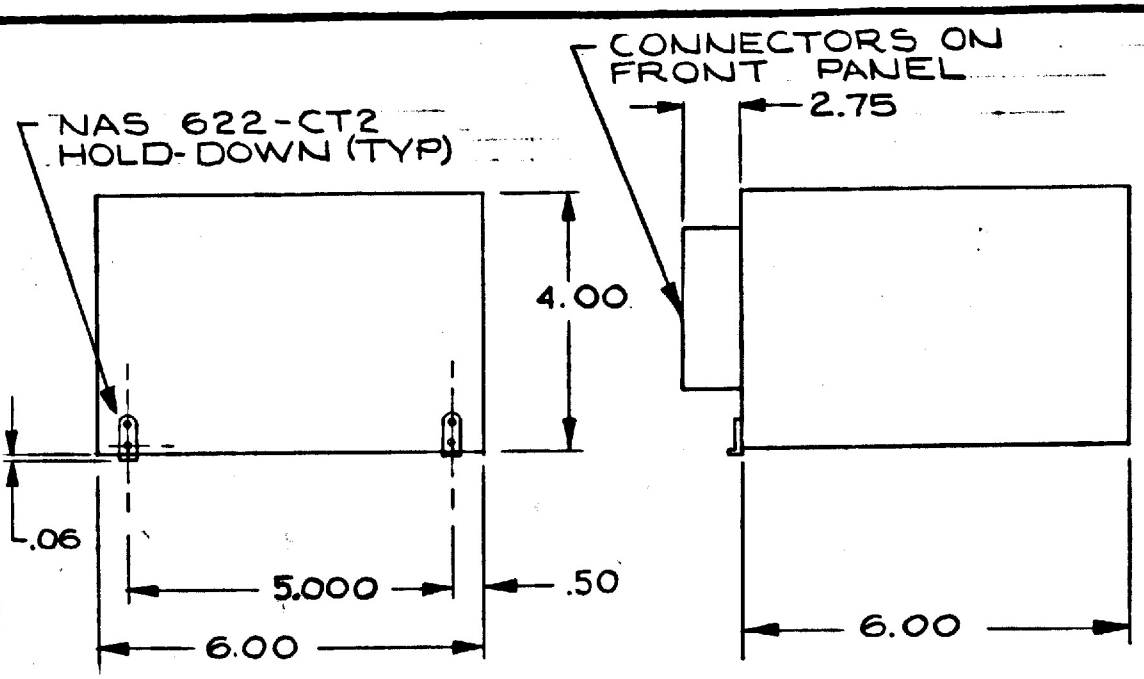
COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION

SPEC CONTROL DRAWING

CONTROL PART

ME901-0666

SHEET 3



E.O. 4446

⟨1⟩	I&T	CONTROL NUMBER
	E	ME 901-0666-0001

⟨1⟩ IDENTIFICATION AND TRACEBILITY
(E) EXEMPT FROM TRACEABILITY

REVISED (A) 9-21-65 (B) 5-13-66 (C) 7-7-66

NOTE TO NAA PURCHASING:
SEE ASL FOR PROCUREMENT DATA

NAA PROCUREMENT SPECIFICATION - MC 901-0666A AND PDC 1

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001
.041 THRU .130 : +.002 -.001
.131 THRU .229 : +.003 -.001
.230 THRU .500 : +.004 -.001
.501 THRU .750 : +.006 -.001
.751 THRU 1.000 : +.007 -.001
1.001 THRU 2.000 : +.010 -.001

CODE IDENT NO 03953

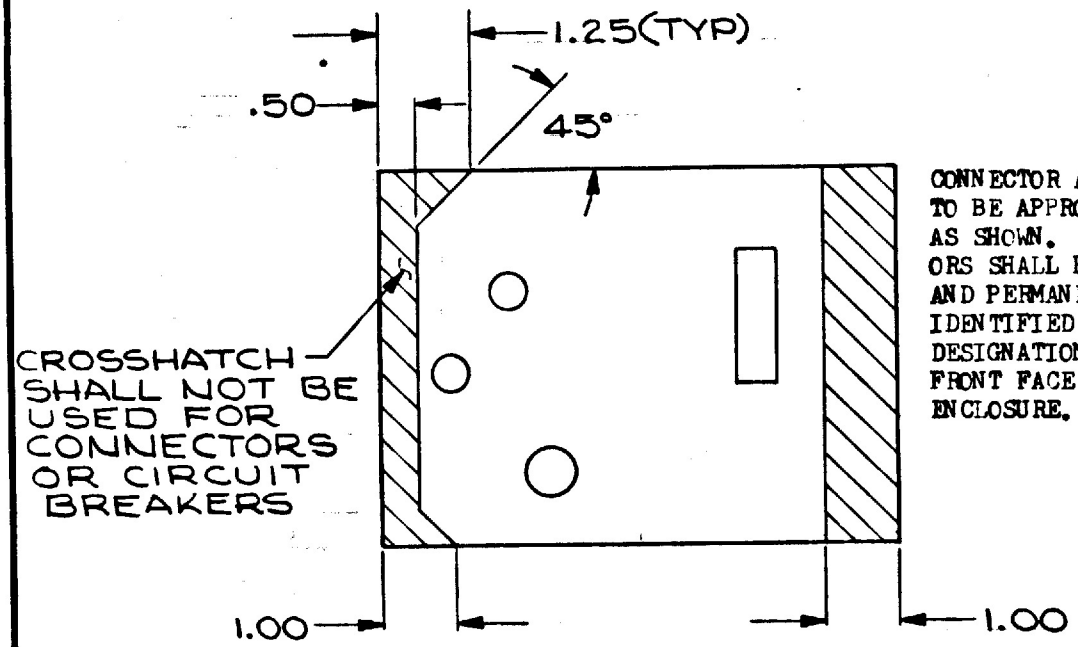
DR BY C.S.CLARK 10-15-64
CHK BY
APPROVED BY
W. G. Wright

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION
SPEC CONTROL DRAWING

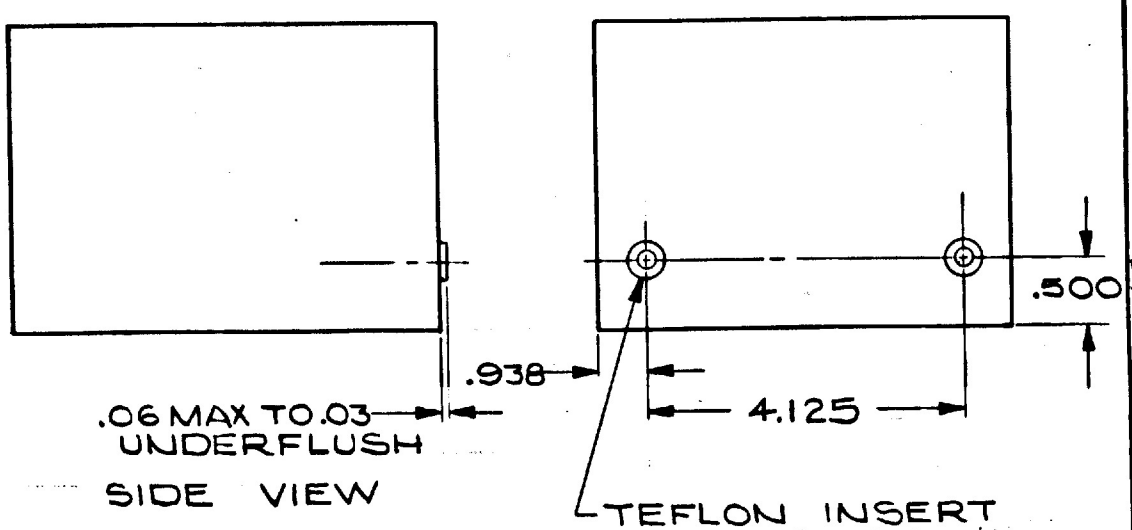
CONTROL PART
ME 901-0666
SHEET 1 OF 3

FORM 955-M-1 NEW 6-63



CONNECTOR ARRANGEMENT TO BE APPROXIMATELY AS SHOWN. ALL CONNECTORS SHALL BE LEGIBLY AND PERMANENTLY IDENTIFIED BY J DESIGNATIONS ON THE FRONT FACE OF THE ENCLOSURE.

FRONT VIEW



SIDE VIEW

TEFLON INSERT
.305 ±.005 I.D.
2 HOLES .44 MIN DEPTH

BACK VIEW

NOTE: LOCATE KEYWAYS AT 9:00 O'CLOCK FOR ALL DEUTSCH TYPE DSM CONNECTORS.

REVISED (A) 2-3-65 OD (B) 6-12-65 AB

FORM 923-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED ANGLES ±30' DECIMALS .XX = ±.03 .XXX = ±.010	TOLERANCES ON HOLES NOTED "DRILL" .013 THRU .040 : +.001 -.001 .501 THRU .750 +.005 -.001 .041 THRU .130 : +.002 -.001 .751 THRU 1.000 +.007 -.001 .131 THRU .229 : +.003 -.001 1.001 THRU 2.000 +.010 -.001 .230 THRU .500 : +.004 -.001	CODE IDENT NO 03953
DR BY C.S.CLARK 10-15-64 CHK BY APPROVED BY	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD. DOWNEY, CALIFORNIA COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION SPEC CONTROL DRAWING	CONTROL PART ME 901-0666 SHEET 2

CONNECTOR PIN AND FUNCTION LIST

PIN NO.	FUNCTION
J200: (DS04-194P, DEUTSCH CO. OR EQUAL)	
POWER	
1	PLUS
2	MINUS
3	N/C
4	N/C
J202: (DS04-7S, DEUTSCH CO. OR EQUAL)	
DATA OUTPUT	
1	N/C
2	LOGIC "1" - DATA OUTPUT
3	LOGIC "0" SHIELD
4	LOGIC "0" DATA RETURN
5	LOGIC "0" DATA OUTPUT
6	LOGIC "1" SHIELD
7	LOGIC "1" DATA RETURN

REVISED (B) 6-12-63 MB

FORM 925-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001 .201 THRU .750 : +.005 -.001
.041 THRU .130 : +.002 -.001 .751 THRU 1.000 : +.007 -.001
.131 THRU .229 : +.003 -.001 1.001 THRU 2.000 : +.010 -.001
.230 THRU .500 : +.004 -.001

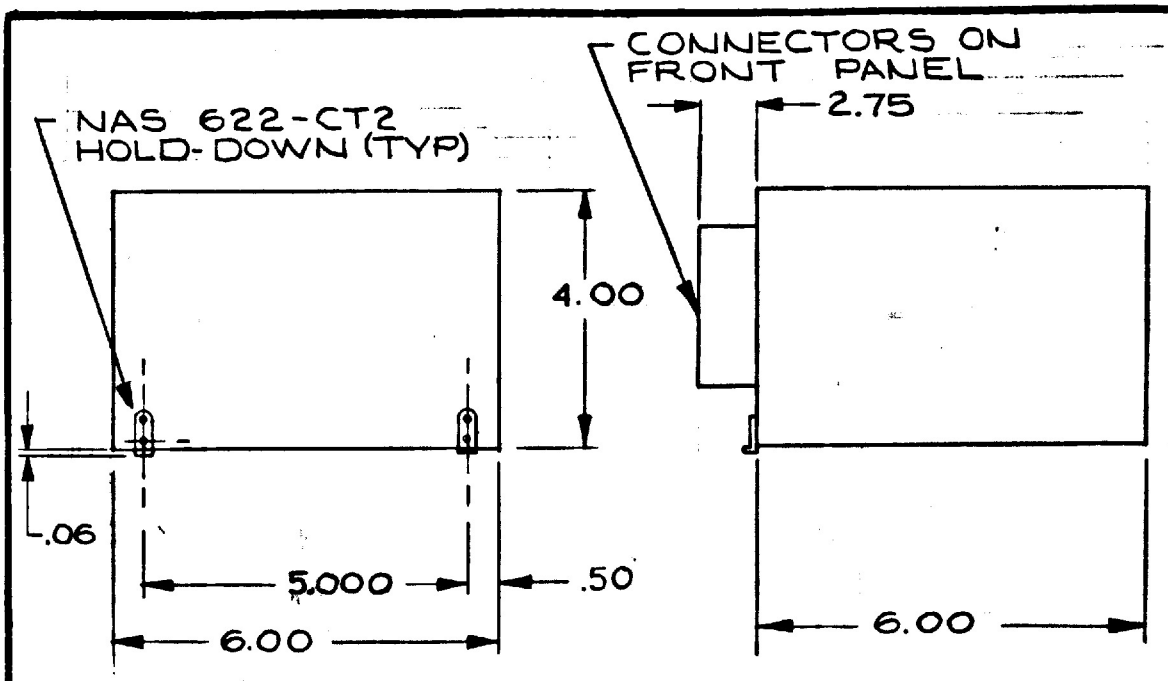
CODE IDENT NO 03953

DR BY	C. BAUER	10-15-64
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION
SPEC CONTROL DRAWING

CONTROL PART
ME901-0666
SHEET 3



E.O. 399743

⟨1⟩	I&T	CONTROL NUMBER
	E	ME 901-0666-0001

⟨1⟩ IDENTIFICATION AND TRACEABILITY
(E) EXEMPT FROM TRACEABILITY

REVISED (A) 2-3-65 (B) 3-12-65 (C) ADDED PDC2 H.B. C.O. E-31-K.O.

NOTE TO NAA PURCHASING:
SEE ASL FOR PROCUREMENT DATA

NAA PROCUREMENT SPECIFICATION - MC 901-0666A AND PDC 1,2 -

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001
.041 THRU .130 : +.002 -.001
.131 THRU .229 : +.003 -.001
.230 THRU .500 : +.004 -.001
.501 THRU .750 : +.006 -.001
.751 THRU 1.000 : +.007 -.001
1.001 THRU 2.000 : +.010 -.001

CODE IDENT NO 03953

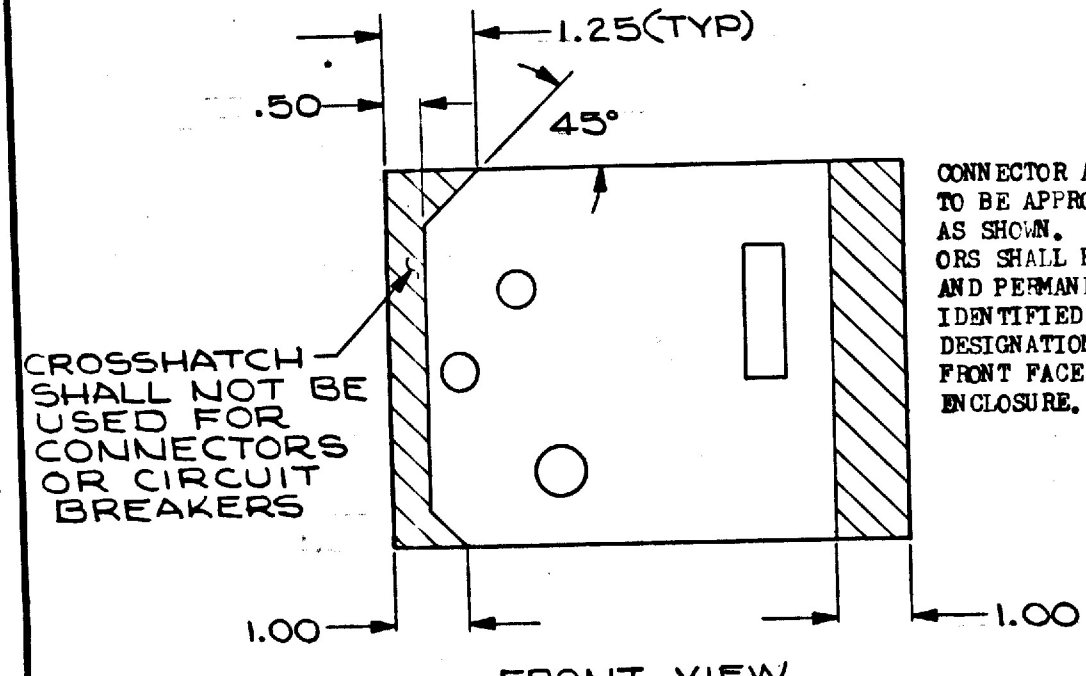
DR BY	C.S.CLARK	10-15-64
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION
SPEC CONTROL DRAWING

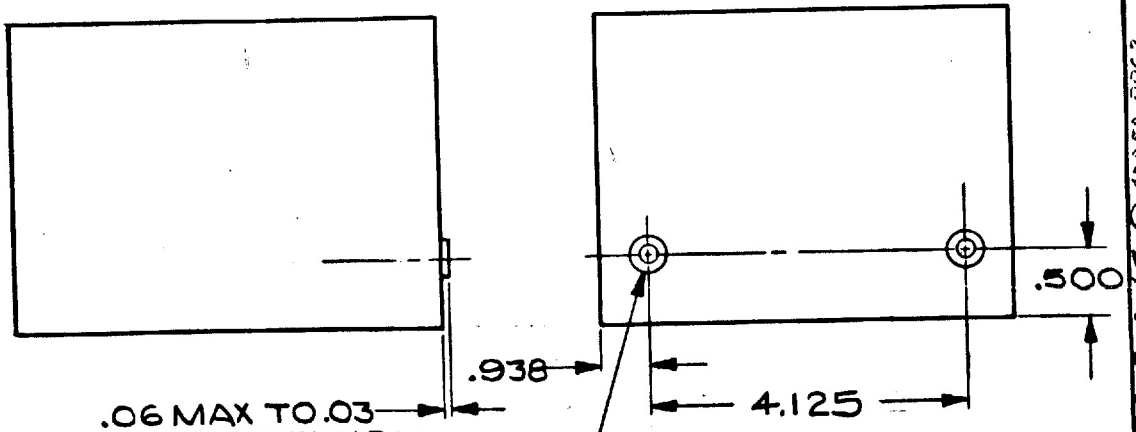
CONTROL PART
ME 901-0666
SHEET 1 OF 3

FORM 523-M-1 NEW 6-63



CONNECTOR ARRANGEMENT TO BE APPROXIMATELY AS SHOWN. ALL CONNECTORS SHALL BE LEGIBLY AND PERMANENTLY IDENTIFIED BY J DESIGNATIONS ON THE FRONT FACE OF THE ENCLOSURE.

FRONT VIEW



SIDE VIEW

BACK VIEW

NOTE: LOCATE KEYWAYS AT 9:00 O'CLOCK FOR ALL DEUTSCH TYPE DSM CONNECTORS.

REVISED (A) 2-3-65 OD (B) 8-12-65 (C) ADDED PDCR 6-2-C.S.C. AK

FORM 925-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010	TOLERANCES ON HOLES NOTED "DRILL"	.013 THRU .040 : +.001 -.001 .041 THRU .130 : +.002 -.001 .131 THRU .229 : +.003 -.001 .230 THRU .500 : +.004 -.001 .501 THRU .750 +.005 -.001 .751 THRU 1.000 +.007 -.001 1.001 THRU 2.000 +.010 -.001		CODE IDENT NO 03953	
DR BY C.S.CLARK 10-15-64	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD. DOWNEY, CALIFORNIA			CONTROL PART	
CHK BY				ME 901-0666	
APPROVED BY	COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION SPEC CONTROL DRAWING			SHEET 2	

CONNECTOR PIN AND FUNCTION LIST

PIN NO.	FUNCTION
J200: (DS04-194P, DEUTSCH CO. OR EQUAL)	
POWER	
1	PLUS
2	MINUS
3	N/C
4	N/C
J202: (DS04-7S, DEUTSCH CO. OR EQUAL)	
DATA OUTPUT	
1	N/C
2	LOGIC "1" - DATA OUTPUT
3	LOGIC "0" SHIELD
4	LOGIC "0" DATA RETURN
5	LOGIC "0" DATA OUTPUT
6	LOGIC "1" SHIELD
7	LOGIC "1" DATA RETURN

REVISED (A) 2-3-65 (B) 6-12-65 ADDED PDCR 4-1-5 C.N.C.

FORM 923-M-1 NEW 6-63

TOLERANCES, EXCEPT AS NOTED
ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010

TOLERANCES ON HOLES NOTED "DRILL"
.013 THRU .040 : +.001 -.001 .501 THRU .750 : +.006 -.001
.041 THRU .130 : +.002 -.001 .751 THRU 1.000 : +.007 -.001
.131 THRU .229 : +.003 -.001 1.001 THRU 2.000 : +.010 -.001
.230 THRU .500 : +.004 -.001

CODE IDENT NO 03953

DR BY	C. BAUER	10-15-64
CHK BY		
APPROVED BY		

NORTH AMERICAN AVIATION, INC.
SPACE and INFORMATION SYSTEMS DIVISION
12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA

COMPUTER BUFFER UNIT,
GUIDANCE AND NAVIGATION

SPEC CONTROL DRAWING

CONTROL PART

ME901-0666

SHEET 3